

Application No. 10/673,685
Amendment "D" dated November 9, 2005
Reply to Office Action mailed April 5, 2005

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Cancelled).

Claim 2. (Currently Amended) A base station having a plurality of sectors, having a plurality of radio channels in each of the sectors, and transmitting ~~[[a signal]]~~ signals each composed of a plurality of frames through ~~[[each]]~~ the plurality of the radio channels in each of the sectors, the base station comprising:

means for generating a plurality of signals ~~[[signal]]~~;

means for spreading each of the plurality of generated ~~[[signal]]~~ signals by using a long code; and

means for transmitting the plurality of spread ~~[[signal]]~~ signals such that each one of the plurality of signals is transmitted through a distinct corresponding radio channel in a distinct corresponding sector,

wherein the means for spreading makes a phase of the long code different from each other between the plurality of sectors,

the means for transmitting makes ~~[[a]]~~ frame transmission ~~[[timing]]~~ timings of the plurality of spread ~~[[signal]]~~ signals different from each other between the plurality of sectors,

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and

the means for transmitting makes, for any given sector of the plurality of sectors, the frame transmission timing of the corresponding spread signal transmitted through each of the plurality of radio channels, different from each other between the plurality of radio channels within any given sector of the plurality of sectors.

Claim 3. (Previously Presented) The base station as claimed in claim 2, wherein the phase of the long code and the frame transmission timing in each of the plurality of sectors are determined based on an offset value of the sector.

Claim 4. (Cancelled).

Claim 5. (Currently Amended) A transmission method in a base station having a plurality of sectors, having a plurality of radio channels in each of the sectors, and transmitting ~~[[a signal]]~~ signals each composed of a plurality of frames through ~~[[each]]~~ the plurality of the radio channels in each of the sectors, the transmission method comprising the steps of:

generating a plurality of signals ~~[[signal]]~~;

spreading each of the plurality of generated ~~[[signal]]~~ signals by using a long code; and

transmitting the plurality of spread ~~[[signal]]~~ signals such that each one of the plurality of signals is transmitted through a distinct corresponding radio channel in a distinct corresponding sector,

wherein the step of spreading makes a phase of the long code different from each other between the plurality of sectors,

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the step of transmitting makes ~~[[a]]~~ frame transmission ~~[[timing]]~~ timings of the plurality of spread ~~[[signal]]~~ signals different from each other between the plurality of sectors, and

the step of transmitting makes, for any given sector of the plurality of sectors, the frame transmission timing of the corresponding spread signal transmitted through each of the plurality of radio channels, different from each other between the plurality of channels within any given sector of the plurality of sectors.

Claim 6. (Previously Presented) The transmission method as claimed in claim 5, where the phase of the long code and the frame transmission timing in each of the plurality of sectors are determined based on an offset value of the sector.